

TABLE OF CONTENTS

	Page
PREFACE	111
LIST OF TABLES.	xiv
LIST OF ILLUSTRATIONS	xv
Chapter	
I. THE HISTORICAL BACKGROUND OF MAGUGU . . .	1
Outbreak of sleeping sickness	1
The Kiru evacuation	3
The plan to save Magugu	9
The first public works.	13
The 1944 clearing of Magugu	16
Assistance to Africans.	26
The trading settlement.	26
Continued clearings in 1945	34
Clearings in 1946	44
Restrictive clauses in European leases	47
The irrigation ditch.	50
Land utilization patterns form.	56
II. THE PHYSICAL BACKGROUND OF MAGUGU	59
Site.	59
Topography.	63
Location.	68
Communications.	71
Climate	75
Vegetation.	87
Soils	98
Soils summary	128
III. THE PEOPLE AND THEIR ECONOMIC ACTIVITIES. 131	
The people.	131
Religion.	136
Moslems	136
Pagans.	141
Christians.	142
Wives, Children, and Dependents	144
Wives	144
Children.	146
Dependents.	147
Total population.	149

Administrative Divisions of Magugu.	149
Enforced Labor and Water Allocation	154
Clearing irrigation ditch	154
Subsidiary ditches.	157
Allocation of water	159
Clearing regenerating bush.	160
Road work	163
Grazing-Herding System.	164
Livestock numbers	164
Allocation of grazing lands	168
Herding system.	169
Sale of cattle and cattle products.	171
Location of Farms and Farmsteads.	173
Picking a farm.	173
Farm and Field Size, Ownership, and Inheritance	179
Farm and field size	179
Ownership concepts.	184
Inheritance	185
Crop Acreages	187
Millet.	188
Corn.	192
Rice.	197
Castor beans.	203
Cassava	204
Sweet potatoes.	205
Peanuts	211
Sugar cane.	211
Fruit	215
Miscellaneous crops	216
Wild Game Damage.	217
The Magugu Market	219
The auction	219
Items traded.	220
Illegal sales	221
Income.	222
Method of determining income.	222
Estimated and actual income	224
European outside labor.	224
Handicrafts	224
Castor beans.	225
Government employees.	226
Rice.	227
Beer.	228
Miscellaneous outside labor	228
Livestock	229
Onions.	230
Corn.	230
Beans, peas, peanuts, sweet potatoes, and charcoal.	231

Millet, butter, goats, and sheep.	231
Sunflower seeds and sugar cane.	232
Miscellaneous income.	232
Prostitution.	233
Summary	234
IV. OUTSIDE INFLUENCES UPON MAGUGU.	236
The Europeans	236
Government officials.	250
The Great North Road.	252
V. SUMMARY	254
The beginnings of Magugu.	254
The physical background	255
Land use.	258
Wild game damage.	261
The Magugu market	261
Income.	261
Outside influences.	262
Conclusions	262
APPENDIXES	
A. AGREEMENT OF EUROPEAN FARMERS TO AID MAGUGU CLEARING SCHEME	268
B. SOIL TERMINOLOGY.	270
C. TRIBAL DISTRIBUTION	276
BIBLIOGRAPHY.	277

LIST OF TABLES

Table		Page
I.	Mbuyuni I Soil Pit	107
II.	Matufa II Soil Pit	108
III.	Kibaoni I Soil Pit	109
IV.	Matufa I Soil Pit	112
V.	Kibaoni III Soil Pit	114
VI.	Matufa III Soil Pit	115
VII.	Marios I Soil Pit	117
VIII.	Kinyume I Soil Pit	118
IX.	Marios Alkaline Soil Pit	121
X.	Kibaoni II Soil Pit	125
XI.	Sino I Soil Pit	128
XII.	Magugu Auction Transactions, 1953 . . .	220

LIST OF ILLUSTRATIONS

Figure		Page
	Map of Africa, 1954.	Frontispiece
1.	Map of Magugu, 1943.	2
2.	Kiru Estates	10
3.	Catholic Mission at Mbugwe	14
4.	Rest Camp at Magugu.	14
5.	Cook House at Rest Camp.	17
6.	Medical Dispensary at Magugu	17
7.	Court House and <u>Baraza</u>	18
8.	Garb of Magugu Woman	18
9.	Map of Clearings, 1944	19
10.	Kiru Area.	21
11.	Map of Kiru Reclamation Schemes.	23
12.	Wild Game.	27
13.	Map of Magugu, 1954.	29
14.	Trading Settlement	30
15.	Main Asian <u>Duka</u> at Magugu.	30
16.	<u>Duka</u> at Magugu	31
17.	Another <u>Duka</u> at Magugu	31
18.	Restaurant on Great North Road	33
19.	Butcher Shop at Magugu	33
20.	First Magugu Hotel	35
21.	Present Magugu Hotel	35
22.	Cotton Warehouse	36

Figure		Page
23.	Magugu Rice and Flour Mills	36
24.	Map of Clearings, 1945.	38
25.	Fly Post Sign	40
26.	Fly Post Barricade.	40
27.	Tsetse Cleansing Chamber.	41
28.	Magugu Homes.	42
29.	Unfinished Home	42
30.	Main Magugu Residential Street.	43
31.	Homes on Magugu-Sino Road	43
32.	Beginning of Main Irrigation Ditch.	45
33.	Concrete Intake of Irrigation Ditch	45
34.	Map of Clearings, 1946.	46
35.	Cattle Route.	48
36.	Cattle on Great North Road.	48
37.	Regenerating Bush	51
38.	Uncleared Vegetation on Sino Estate	51
39.	Tended Portion of Irrigation Ditch.	54
40.	Untended Portion of Irrigation Ditch.	54
41.	Dudumera River.	55
42.	Irrigation Ditch at Dudumera River.	55
43.	View of Main Irrigation Ditch	57
44.	Diversion Dam on Irrigation Ditch	57
45.	Southward from Village.	60
46.	Eastward from Magugu.	60
47.	Western Rift Wall	61

Figure		Page
48.	Closeup of Rift Wall	61
49.	Northward from Dareda.	62
50.	Southward from Mto Wa Mbo.	62
51.	Rift Valley from Sino Hill	64
52.	Rift Valley Northwest of Sino Hill	64
53.	Trading Settlement	65
54.	Sino Hill.	65
55.	Stream from Tindiga Swamp.	67
56.	Lacustrine Plain of Lake Manyara	67
57.	Map of East Africa	69
58.	Arusha Signpost.	70
59.	Magugu Woman	73
60.	African on Bicycle	73
61.	Robbery Lineup	74
62.	Magugu-Sino Road	76
63.	Graph of Average Monthly Rainfall.	78
64.	Graph of Rainfall: Driest-Wettest Year	79
65.	Graph of Total Yearly Rainfall	81
66.	Map of Magugu Vegetation, 1943	88
67.	Vegetation West of Sino Hill	89
68.	Riverine Vegetation.	89
69.	Regenerating <u>Xanthophloe</u> a.	91
70.	Burungi <u>Mbuga</u>	91
71.	Burungi <u>Mbuga</u>	94

Figure		Page
72.	<u>Semi-Mbuga</u>	96
73.	Northeast from Sino Hill	96
74.	Giraffe.	97
75.	Baobab Tree.	97
76.	Measuring Soil Horizons.	100
77.	Gathering Soil Samples	100
78.	Soil Pit	101
79.	Trimming Soil Pit.	101
80.	Map of Magugu Soils.	104
81.	Soil Profiles.	110
82.	Soil Profiles.	110
83.	Soil Profiles.	119
84.	Soil Profiles.	119
85.	Soil Profiles.	126
86.	Interviewing Magugu Farmer	135
87.	<u>Jumbe</u> (Headman) and Wives.	138
88.	Abdu, the Cook	138
89.	Moslem Mosque.	140
90.	Magugu School.	140
91.	Magugu Catholic Church	143
92.	Waiting for Mass	143
93.	Magugu Family.	145
94.	Unmarried Women.	145
95.	Small Child.	148
96.	Magugu Farmer.	148

Figure		Page
97.	Map of Native Administrative Divisions.	151
98.	Southern Boundary of Magugu	152
99.	Kibaoni, "The Place of the Sign".	153
100.	Kibaotatu, "The Place of the Three Signs"	153
101.	Besi Hill	155
102.	Map of Magugu Irrigation Network.	158
103.	Eastern Part of Magugu.	161
104.	Abandoned Cotton Ginnery.	165
105.	African-owned Cattle.	166
106.	Wambugwe Huts	166
107.	Wambugwe Hut.	167
108.	Grazing Grounds Northwest of Magugu	167
109.	Map of Farmstead Distribution	174
110.	Irrigated Corn.	180
111.	Small Field	180
112.	Trading Center.	181
113.	Predominate Rice Area	182
114.	Map of Magugu Land Use.	189
115.	Map of Non-irrigated Corn, Millet Farm.	190
116.	Map of Partially Irrigated Farm	193
117.	Goose-necked Millet	196
118.	Mixed Agriculture	196
119.	Map of Rice, Corn, Sweet Potatoe Farm	198
120.	Paddy Rice.	199

Figure		Page
121.	Large Rice Paddy	199
122.	Guarding Rice Paddy.	202
123.	Threshing Rice	202
124.	Map of Onion, Corn, Rice, Cassava Farm . .	206
125.	Cassava Field.	207
126.	Uprooted Cassava	207
127.	Map of Dry and Irrigated Farms	209
128.	Sweet Potato Ridges.	210
129.	Ant Hill Agriculture	210
130.	Ant Hill Remnant	212
131.	Field of Peanuts	212
132.	Field of Sugar Cane.	214
133.	Buffalo.	218
134.	Single Elephant.	218
135.	Gritzalis Home	238
136.	Paw Paws	239
137.	European Cultivation	239
138.	Coffee and Paw Paws.	240
139.	European Irrigation Ditch.	240
140.	Tapping Paw Paws	242
141.	Drying Paw Paw Pectin.	242
142.	Coffee Drying Trays.	243
143.	Sisal.	243
144.	Decorticating Sisal.	244

Figure		Page
145.	Decortivating Machine	244
146.	Drying Sisal.	245
147.	European-owned Corn	245
148.	European-provided African Housing	247
149.	Contract Laborers' Dwelling	247